

"ByteBack"

wind of change...

ByteBack, as we know it, is leaving: make way for a new look

ang on, what's this! Where's the 16page booklet I've been waiting for? Before you wonder what has happened, I would like to explain why the Issue you are reeding here is somewhat different

from the past format.

As you are well aware, this monthly megative vary quickly became a bi-monthly publication, due to my work's great demand on my lime. You may also have noticed that quoting "bi-monthly" is nothing short

of oplimitalic. By-Reschiesus 7 should have been with you at the beginning of July, but I folied to meet that targut misoratby, and I resulty hate it when I hat happens. The other night, I came up with a different idea for BB, Inthe hope that I can make it is production easiler, utilimately making its distribution more resultant for you the valued member resultant for you the valued member.

Here is a my proposal:
Al present, Bystellock lish AB format and
is normally 16 pages long. Of these pages,
he cover (basically information about the
erticles in the magazine), the 1 page contents
ist, % a page of subscription defines and is
a page of suppliers alsy basically the same.
So the number of pages flatterelly contain
articles again saue is around 12 millions again saue is around 12 millions again saue is around 12 millions.

I propose to reduce the size of ByteBack to a total of 8 prages (that is 8 A5 sides) for each isaue. Il will come folded in the way little one le (it saves time photocopying, collating and stapling), with a front cover, back cover a double-page spread for pages

2 and 3, and four pages for the fold-out section (rather Re reading the Financial

Times on the
Tube, but easier), containing the same variety
of articles that you are used to seeing in SB.

Issue hae been reduced to 5:

◆ There will be an article starting on the front cover, not unlike hits one ectually, so this effectively gives us an extra page to fill with BBC stuff:

Each leave will contain about % a page for subscription address details-this will stay static from issue to leave;

 The Suppliers section will turn up in

 The Suppliers section will turn up in every second issue of BB, so that effectively frees up another % a page in every other issue;

continued on back page

Acorn show 1994

A report on the success of the BBS stand, from Frank Jones.

□ sides being is member of Tijsselaux², ten also is emercer of 18 til Solwer's and 's Salinat' and elometow the organization of the properties of the sides of the organization of the

The show was held at Harrogate, 22nd/24th Apil at the Exhibition Centre in a very nice hall Regretfully parking was very difficult. In Pay and Dilepity parking sedjacent, and there were not many of those, it was \$3.80 for six hours!! surred up to help Chris on the efference before opening day WILLING to pay but I just could not find enywhere - threshed up in some other over half a mile every.

Eventually presented mysel to Christ who feel beam free alone 11 AM, and on the eleven foot of table in he had rigard up the three computers he was to use (Metter 128, Compact 880 °B), compile with Diele Drives and his trusty Cittzen 210D printer. There were numerous cardboard boxes containing designation, finled copies of everything ABIs had somy request could be dealt with. The megazine and Catalogue duc were to be sold for £150 or 100 feel.

Leatlete extolling the virtues of 8-Bit and our own "ByteBack" were in

avidance. Arrayed on the walls were a Mester Poster to 8 Bit; sa "Superior Software" had given use certon of many complications of "Pley It again Sam" to sell at hell price, Chris and I erranged a teature of their end then there was numerous A4 printoute extelling the virtues of 4-88.

By 5 c/clock there exemed nothing more that we could do to enhence the stand. Looking round we could not help but despair that the exhibition would be mady for 10 c/clock nextmorning. Some etand holders hed yet to turn up end the show staft were still leying carpets, electrics to the country of the stand holders had yet to the country of the show staft were still leying carpets, electrics the country of the

The author(?) of the Master Poster for 8-bit was our own Paul end the colours were the green usually associated with Acorn and black -came scross very wellas did the leaflets pushing "ByteBack". Ohde was very grateful for Paul'e help and advice on disclay.

Come the Friday morning I was there or 0.30. Managed to park nearer than fair a milel Afreedy there was 2.85 yard queue outside and on entering, though there was a noticeable improvement compared with the previous night, livers was a limit activity setting up stands sice. All 10 ordook these was the managed with the previous night, livers was the analysis of the compared with the previous night, livers was the article was still activity setting up stands sice. All 10 ordook there was the managed by but the previous night, livers was the most common than the previous night of the common than the previous night of the common than the previous night of the common than the common than the previous night of the common than the co

As the noise grew, I settled for the job

The Acorn Show 1994 continued from previous page

of being the "Barker" outside our stall, handing out leadeds and balding on nostalgia elde, somewhat on the me of "Back to Basace" or "Memories are made of these", explaining the support svellable in the 5-Bit word and so on, then passing them one of their

A milatako i made early on wes to presume that the more elderly the person, the more likely likely were to be a BBC type. it furned out to be notill They were the one's with A00001 And 1 did find 3 people who are still running "Electrona" and of those two were under twenty years of ege. Of course. I got verticus remarks like "Am in the museum section," "I sold wine in 1989", "Can you still got one?".

We struck up a good relationship with the Wakefield group, passing interested parties onto one enother with a loi of good humour. I am sure it was enjoyed by ell. The WL G who had done this before said the attendance patient would be for the respective days, 27%, 40% and 33% of the whole.

It was arrusting how many people had Archimedes yet had kept their BBCs but confessed to not using term for yeers. Admiration was often expressed for the programmers of the BBC are with what they managed to echieve with so BBE memory. One chap was definious with a program I am unfamiliar with calded "New". According to him it was great and I quote titukes six times as much memory one after poil is time has the

Infactionce we got some BBC owners talking, so much in praise of the BBC were they, that one was left to the conclusion why did they buy the Arc? From about quarter to eleven to

approaching a o'clock was great fun, taking, saling aboving, saling and soveral people werling to see the remnants of what they had in BBC software/hardware got a good cause, were going to and it to Chris to help with Club funds. During the last hour till closing lime - 5 o'clock, the fall off of customars were notice—

eble.

solid Archimedes

Nowwhat else was there of the BBC? Probably 0 0001%! There were two stalls, one with a few old manuals and the other about a dozen old Acorn Usersi It was

This was the day Archimedes had released their new model and were stepping into the personal computer world with the POSCO. Most dealer stalls and Software stands had one. This did provoke remarks like "over the next few years, will we see the Archimedes renos oo the same way as the RBO?". Personally I suprops we will one cannot stop progress. However the day portthued to surprise me with the hold and affection the BBC still has on the outside world. We think we are in the hundreds in our enthusiasm, out there they are in their thousands. If we could only get their names on the Club's list.



Letters

If you have something to say, please write...

I enjoyed the sample copy of ByteBack (Issue 6, March 1993)) (Ok, fair

employ it may apply copy of systemset, itsnet is, March 1985) (Det., June employ it is supplyed to its supplyed copy of systemset, itsnet is, March 1985) (Det., June employed in paper forms wither librar disc as fean lake it to work to read white bording my hand. I think that you join comition my is a shout right, and the book bording my late to the book of the bo

David Robinson, Havant, Hampshire

You dish' mention that other little room you can take BE toto.

If you have repland issue, with leady on my port lintailment, 'an idiots go you my continual ment, 'an idiots go you my continual mention in the disc based magazine is the up and content pilitips. It have journed 8 sits Sortine recently, so you may see my articles appearing on those in the future. The membership will instead see specially dy you keep the output low days easily understand and dispetitible for a majority of your readers, Obviously you may have to set adds some corrects to cater for minority needs.

Trevor Crapper, Eaglescliffe, Stockton-on-Tees

Many thanks for fisure 6. Have been very busy delving into the Beeb book of etc. etc. but I me sill not set to the ware. May be in the vell begin to know bow my Beeb works, but it's all good fan all the aame Could you please put e few lines in Issue; These tipes thought an ARX Mosea and flow mitted ARXY When. I located the rom in the bottom bank for right, all 1 get on my whi is the logs and the screen is blocked. Can anyone help me with this problems! fencies my 21 for the next excliding tantalizing, fascinating brittened edition of ByteBeekl Devid Rowan Abstront 10.022 RAXIVA.

Believe ms, I dan't write these letters, neither do I offer bribes of any sort!

About finding subscribers. It occurs to me the same of your best potential sources of interested parties must be the Bid public domain tuer groups. If you were to get in touch with them, surely you would be able to persuade them that ByteBids is nevy much in their interest. The could easily 41] one of your cards and with the contract of PL software seed to those using the service.

Chris Richardson of 8-Bet Software helps to promote ByteBack via his disc-based magazine 8BS is probably the largest BBC PD/user group ground.

sorting

a step-by-step description of a well used routine... part I

A tone time or another, most of us would find a use for something that sorts a list of items into alphabetical or numerical order, webter it be ascending or descending order. Although I can't think of a use just at the moment, hang around 'cos this

day ain't over yet.

There are a number of ways that a list of items can be sorted. Consider how you would sort a list of names yourself: you might start by sorting the items based on the first letter in the name; then sort each sub-group of items by comparing property.

oesding letture after the first. When producing a routine or program for a computer, it's important to consider the way you would go about the producing before trying to tell Beeth how to go shoult. For all the first hey provide, computers can't do say more than you sell them - but they and old I admin sight fisters, and that's where the real benefit is, it's not very important if the routin you write is a little instifficier (unless you have a single number of thems to you zero it flows to you zero.)

So, with these various thoughts in mind. et's consider a simple sort routine, probably the Mother of all 'sort routines' every devised. Bubble Sort, so called because of the way it re-orders the list, comparing two adjacent entries at a time and swapping them if they are out order. This function is performed from the top of the list down then the procedure repeats, until no more events take bake. This must then signify

that the list is sorted. If you were able

to literally see the items in the list being sorted, you would notice out-of-order entries 'bubbling' to the top.

bubbling to the top.

We begin with a list of 10 random names,
which are put into separate string variables.

which are put into separate string variables, held in a single dimension: 18 DIM nove\$(16):RESYORE

From here we assign each of the names to

- a string: 20 FOR loop=1 to 10 30 READ name((loop)
- 40 NEXT 1000
- And here are the names:
- S0 DATA London, Huil, Manchester, 8irminghom, Oxford, Ashford, Cheshire, Yorkshire, Leeds, Glasgow

The names will be allocated thus: name\$(1)+London name\$(5)+Ashford name\$(2)+Mull name\$(7)+Cheshi're name\$(3)-Monchester name\$(3)+Yarkshire name\$(4)-Birminghon name\$(3)+Leads name\$(5)-Asford name\$(3)+Leaspow

We'll set up a loop in which the process of comparing adjacent pairs of names will continue until all names have been sorted. To be able to know when all the names are sorted, we use a simple variable, which we will cell [4.66]

The sort routine here is for sorting the list in ascending alphabetical order. This involves comparing two items from the list and awapping them if the second one is less than the first. Each letter and number in the computer has a numerical value, dictated by the standard known as ASCII. By these standards the letter. **

Sorting...

has a numerical value of 65 and 'c' has a value of 97. The numbers 8-9 have the values 48 to 57. Because of this, it's easy to compare two letters like comparing two numbers and come out with one being

greater than the other Soc 60 REPEAT: FLAG=FALSE

78 FOR loop=1 TO 9

We set up the start of two nested loops. The first loop runs comparing pairs of items, swapping them If required. The first time through the loop, we compare the first two items in the list, none\$(1) and name\$(2). The next time through, it's name\$(2) and rore\$(3), and so on, until the last comperson is between name\$(9) and name\$(18) The number of comparisons here are always one less than the number of items in the list, which is why the loop only runs to 9 In time 70. The swap is done with the pest

line: 80 IF name\$(\loop\>name\$(\loop+1) temps=name\$(loop):name\$(loop)=name\$

(loop+1):name\$(loop+1)=temp\$ Two items are compared (flem loop and Item loop+1). If the first of the two is more than the second, a swap must take place





Then we repeat the process with the rest of the list

90 NEXT 1000

We've gone through the whole list once, but I his doesn't mean that the list is sorted: It will lake a number of passes to make sure the items 'bubble' up to their correct

position in the list: 100 UNTIL FLAG-FALSE

This will complete the second, outer, loop (a REPEAT_UNTIL loop) until the value of FI AC to FAI SE

tf you look at line 60, FLAG is initially set

to FALSE and nowhere in the program has it been given any other value, so the program will stop after only one pass of the REPEAT., INTIL loop, which is not what

we want to happen. We have to add a command to the end of line 80, after _temp\$:FLAG-TRUE The reason for having a flag variable in

the loop is to be able to tell us when the list is sorted FLAG is set to FALSE initially and stays that way unless line 80 is implemented Line 80 takes the 2 items It's dealing with and compares them, swapping them if necessary. If the swan takes place FLAG is set to TRUE, and If FLAG is TRUE. the REPEAT_ UNTIL loop goes around again for more item-swapping fun (and FLAG is set to FALSE once more). If, after testing the list of items in pairs at tine 80 and no swaps take place, it's obvious that the list is sorted. In this case. FLAG does not get set to TRUE so the REPEAT., UNTIL loon exits: the sort is complete.

I hope this article has been helpful to some of you; I know it's been elemental to many, but BB caters for all levels! Next month we'll expand on this basic routine by adding a descending order sort and perhaps a userfriendly interfore to merate the program

bits and bobs

a mixture of little snippets

COMPETITION CORNER

In fissue Six, I inadvertently said, *... Another game goes to anyone who can tell me why I bother to run competitions at all... "The ButeRack malbox was flooded with entry to this and the committee voted unanimously for James Rumett's contribution, reproduced here for your amusement:

The reason that Daul runs a competition, is that he must like the imposition.

That is put on his time

Which is obviously quite prime.

And he prefers to be this than act 900 Con. Of all the entry, this was by far the best. Congratulations James, a game is yours!

At a risk, i'll just say A game goes to snyone who can tell me why I keep writing things like this efter each competition. Another game to anyone who can tell me in the most drawn-out way, how many entries I received for the competition

OO-ER MISSUS!

James just won...

Issue 6, page 13 (Compettion Results). it says LISTO 0 "actually doesn't do enything". This is true Initially, but used subsequently. It removes the spaces added by LISTO 1 to LISTO 7

MEMBERSHIP

Present subscription is over 70... Welcome to ail of you new members! We hope that you enjoy Byte Beck and through it and other support groups, find continual enjoyment and interest with your BBC.

This short program causes the BBC to been every time a key is pressed: useful if you're copy-typing and don't want to look at the screen to be sure a key press has registered.

18 code%-878 20 PK-modeK

8 788221=code% DIV 256 A 78,8229-roviek MOD 256

68 I DI4887 78 JSR &FFEE

KEY GEED

To switch this machine code routine on and off, use *FX 14.2/*FX 13.2 respectively. If your BBC is fitted with OS 1.0 or later, you can alter the been in a

number of ways: *FX211.X channel number, 0-3 *FX212.X envelope number

(0-127 in steps of 4) *FX213.X mitch of the been (0-255) *FX214.X duration of the bern (0-255)

whatever model you own!

continued from front cover

BBC SUPPORT

& Admetics Self Ltd., PO Boy 786 Sutton The magazine will now be known as a Newslatter

Coldfield, West Midlands, B74 4HQ 2 021 352 0847 ◆ The price will be reduced to 70p per

issue, which, as always, covers p+p. ♦ Rickitt Educational Software \$2 0480 57152 ◆ Pres Ltd - PO Box 319, Lightwater. However, for existing members who Surrey GU18 5PW ♥ 0278 472048 have paid £1.00 per leaue in advance ◆ Settwere Bargeins & Memory Games for SyteBack, you will receive two of the

C/O Northwood House North Street new, emailer issues, so you will effectively get twice as many issues, and e Leade LS7 2AA # 0532 436300 little more than Iwice the amount of

 Sherston Software (educational) articles to the bargain **2** 0686 840433 Receives each leave of ByteBack will

+ Reeffirst PD - 97 Chaster Road. be guicker for me to out together. I Southport, PR9 7HH em honing to produce it more often! If

• SOUNEY - Disc based magazine possible RR will become a monthly packed full of useful BBC items: newslatior, Buey periods with work, Bon Marshal, 41 Westbrook Drive. however, may mean that BB will appear Rainworth, Mansfield, Nottingham at longer Intervals.

Well, this is my proposal, it's for you + 8-BIT SOFTWARE - An excellent source of that BB comes together each issue, so BBC Information and PD software via your views have to count as final say. a disc based menazine for Some people balleve in "a little and anthusiasts: Chris Richardson, 8BS. often" and would therefore like to receive 17 Lambert Park Road, Hedon, Hull something every four weeks, rather than

NG21 OFB

HILL12 BHE econothica mare every eight weaks. For A DESTROYER SEATTING - Chec based the paytissue at least I will be malemegazine: David Lowless, 82 Main teining this new look, From Issue 9 Street, Pembrook, Dyled, Wales

onwards, it's up to you which formst you BAT1 4HH se knohide am SAE when replying to user p

TO B

prefer. Subscription details ByteBack is produced by me in my spare time. It is not a commercial venture

but I have a lot of fun putting it together each leeve. If you like reading But a Back, you can receive it requirely by authorithms. Each issue is evallable for 70s, which includes postage. You can subscribe for any number of lenues up to a maximum of 12. Just send a note with your name and address, details of how many and which issues you would like and a cheque or postal

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